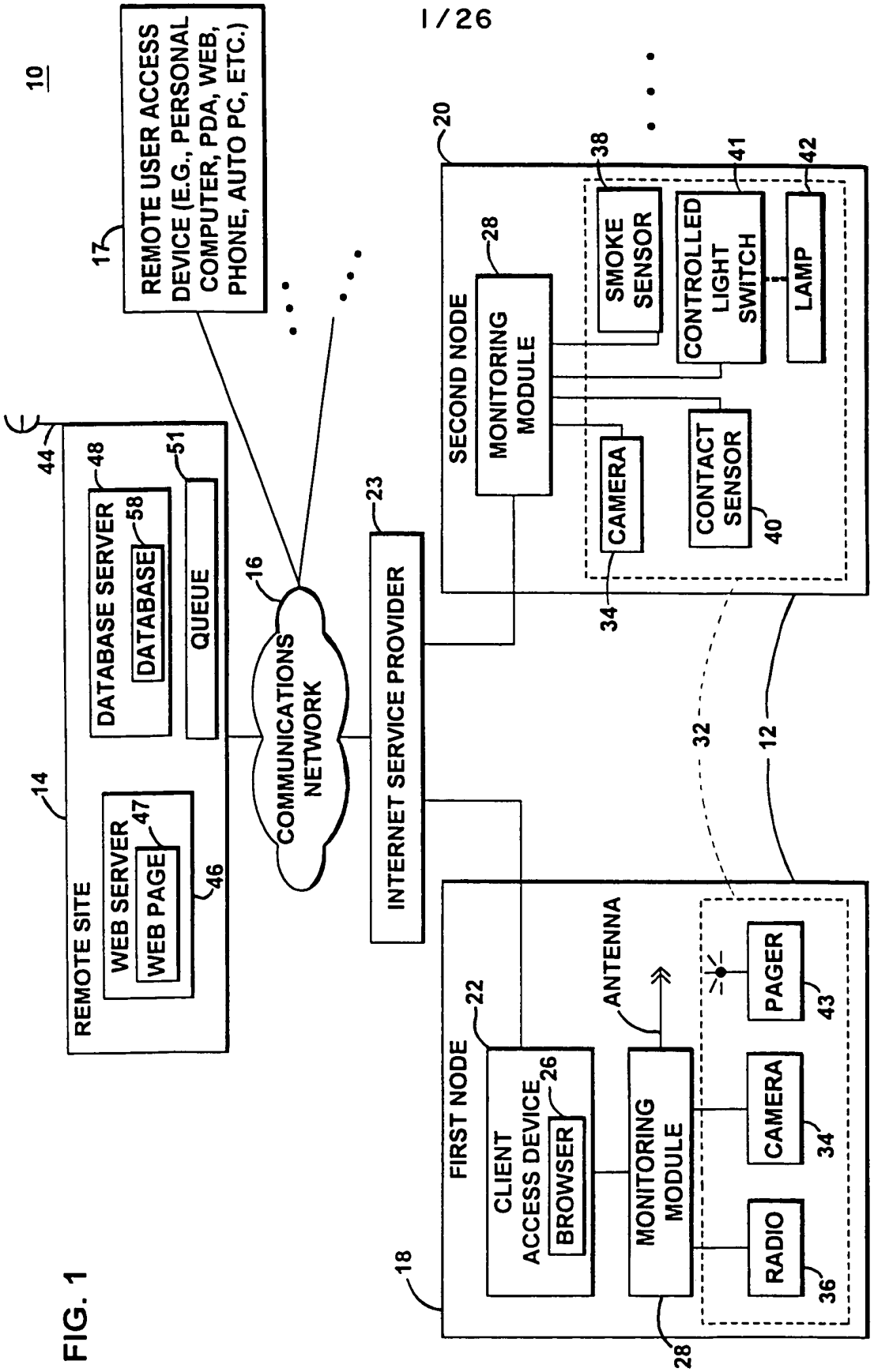
10
REMOTE USER ACCESS DEVICE (E.G., PERSONAL COMPUTER, PDA, WEB, PHONE, AUTO PC, ETC.)
17
20
SECOND NODE
28
MONITORING MODULE
38
SMOKE SENSOR
41
CONTROLLED LIGHT SWITCH
42
LAMP
CAMERA
34
CONTACT SENSOR
40
44
48
DATABASE SERVER
58
DATABASE
51
QUEUE
REMOTE SITE
14
WEB SERVER
47
WEB PAGE
46
16
COMMUNICATIONS NETWORK
23
INTERNET SERVICE PROVIDER
32
12
FIRST NODE
22
CLIENT ACCESS DEVICE
26
BROWSER
ANTENNA
MONITORING MODULE
PAGER
43
CAMERA
34
RADIO
36
18
28

FIG. 1

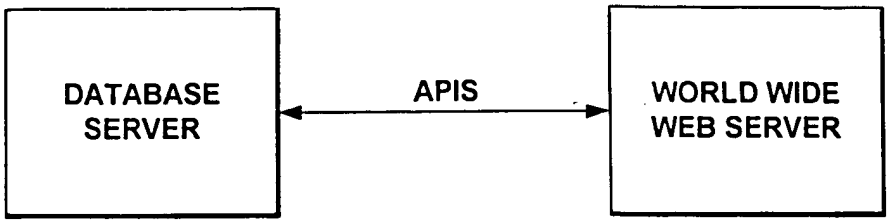

FIG. 2

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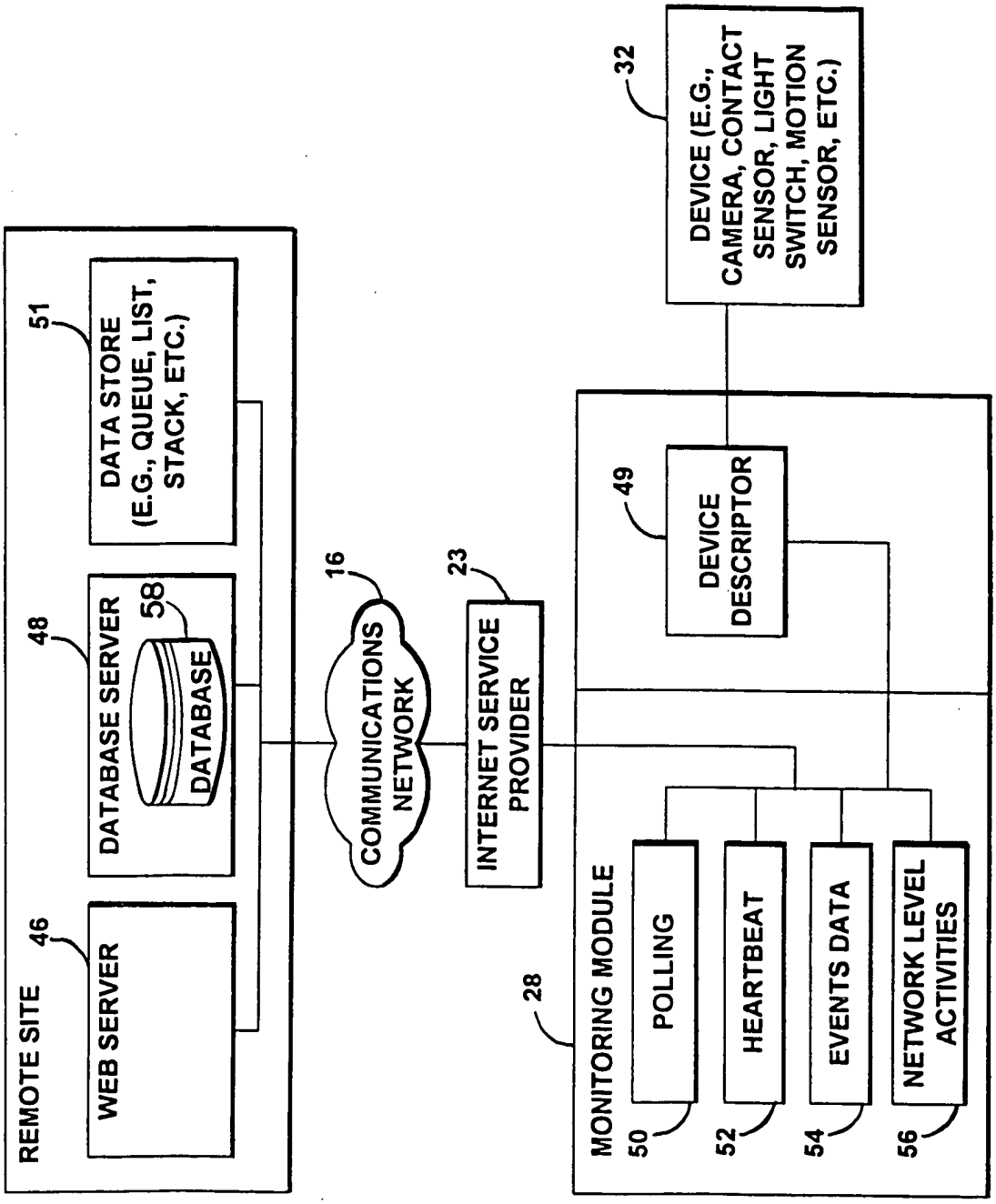
REMOTE SITE
46
WEB SERVER
48
DATABASE SERVER
58
DATABASE
51
DATA STORE (E.G., QUEUE, LIST, STACK, ETC.)
16
COMMUNICATIONS NETWORK
23
INTERNET SERVICE PROVIDER
28
MONITORING MODULE
50
POLLING
52
HEARTBEAT
54
EVENTS DATA
56
NETWORK LEVEL ACTIVITIES
49
DEVICE DESCRIPTOR
32
DEVICE (E.G., CAMERA, CONTACT SENSOR, LIGHT SWITCH, MOTION SENSOR, ETC.)

FIG. 3

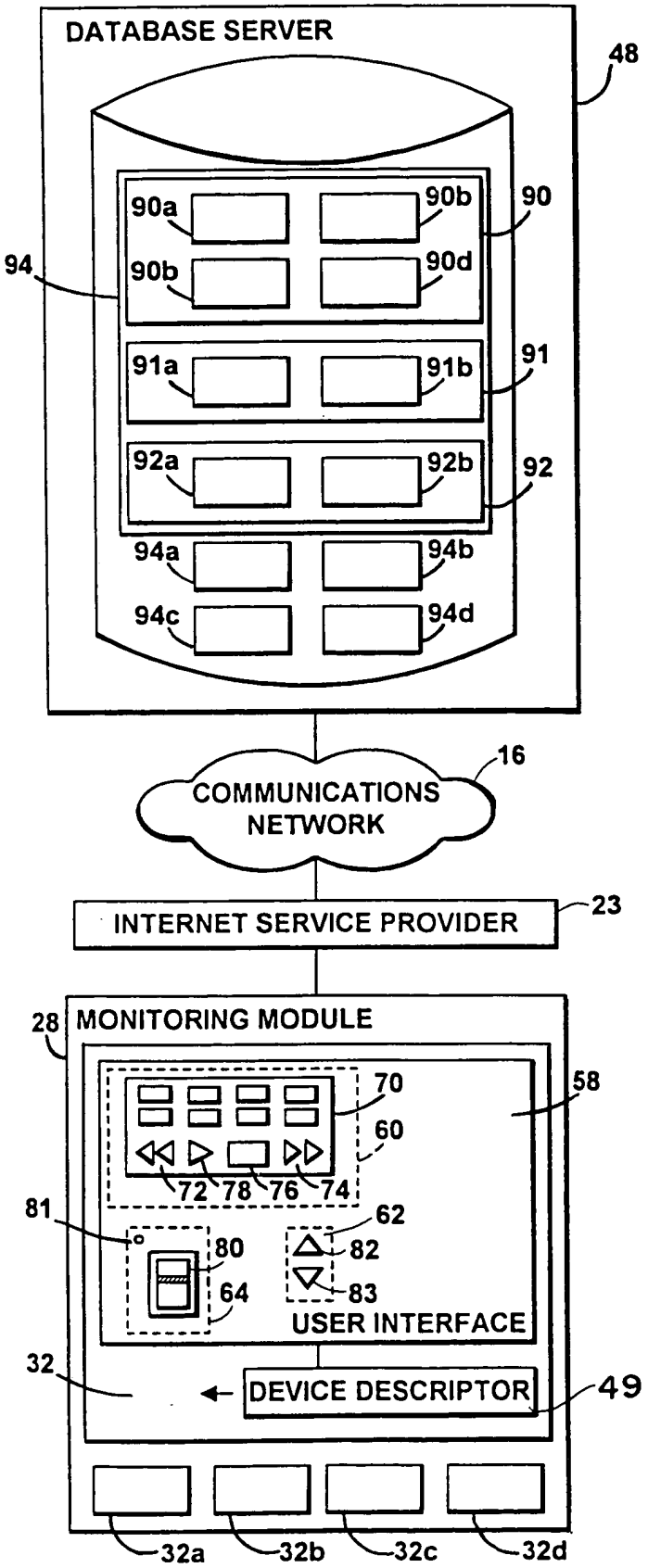
DATABASE SERVER
48
90a
90b
90
94
90b
90d
91a
91b
91
92a
92b
92
94a
94b
94c
94d
COMMUNICATIONS NETWORK
16
INTERNET SERVICE PROVIDER
23
28
MONITORING MODULE
70
58
60
72
78
76
74
81
62
80
82
64
83
USER INTERFACE
32
DEVICE DESCRIPTOR
49
32a
32b
32c
32d

FIG. 4

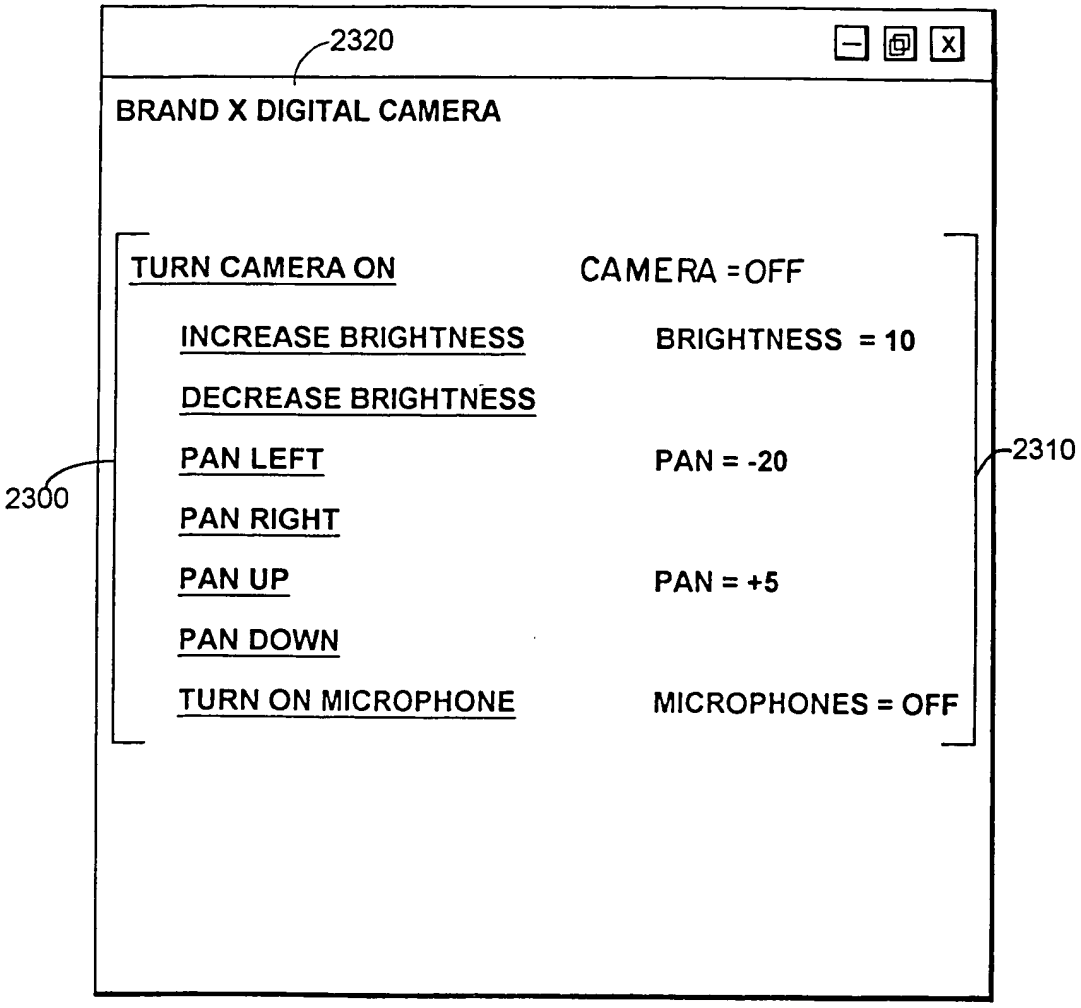
2320
BRAND X DIGITAL CAMERA
TURN CAMERA ON
CAMERA =OFF
INCREASE BRIGHTNESS
BRIGHTNESS = 10
DECREASE BRIGHTNESS
PAN LEFT
PAN = -20
PAN RIGHT
PAN UP
PAN = +5
PAN DOWN
TURN ON MICROPHONE
MICROPHONES = OFF
2300
2310

FIG. 5

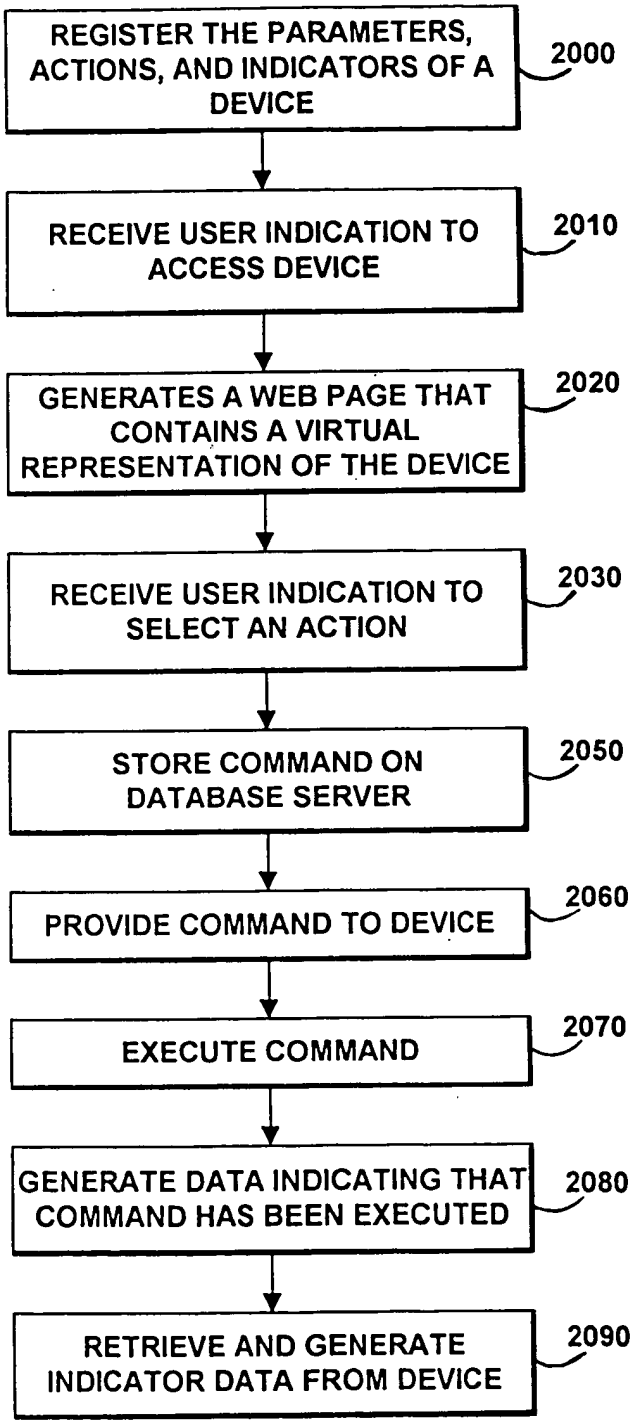
REGISTER THE PARAMETERS, ACTIONS, AND INDICATORS OF A DEVICE
2000
RECEIVE USER INDICATION TO ACCESS DEVICE
2010
GENERATES A WEB PAGE THAT CONTAINS A VIRTUAL REPRESENTATION OF THE DEVICE
2020
RECEIVE USER INDICATION TO SELECT AN ACTION
2030
STORE COMMAND ON DATABASE SERVER
2050
PROVIDE COMMAND TO DEVICE
2060
EXECUTE COMMAND
2070
GENERATE DATA INDICATING THAT COMMAND HAS BEEN EXECUTED
2080
RETRIEVE AND GENERATE INDICATOR DATA FROM DEVICE
2090

FIG. 6

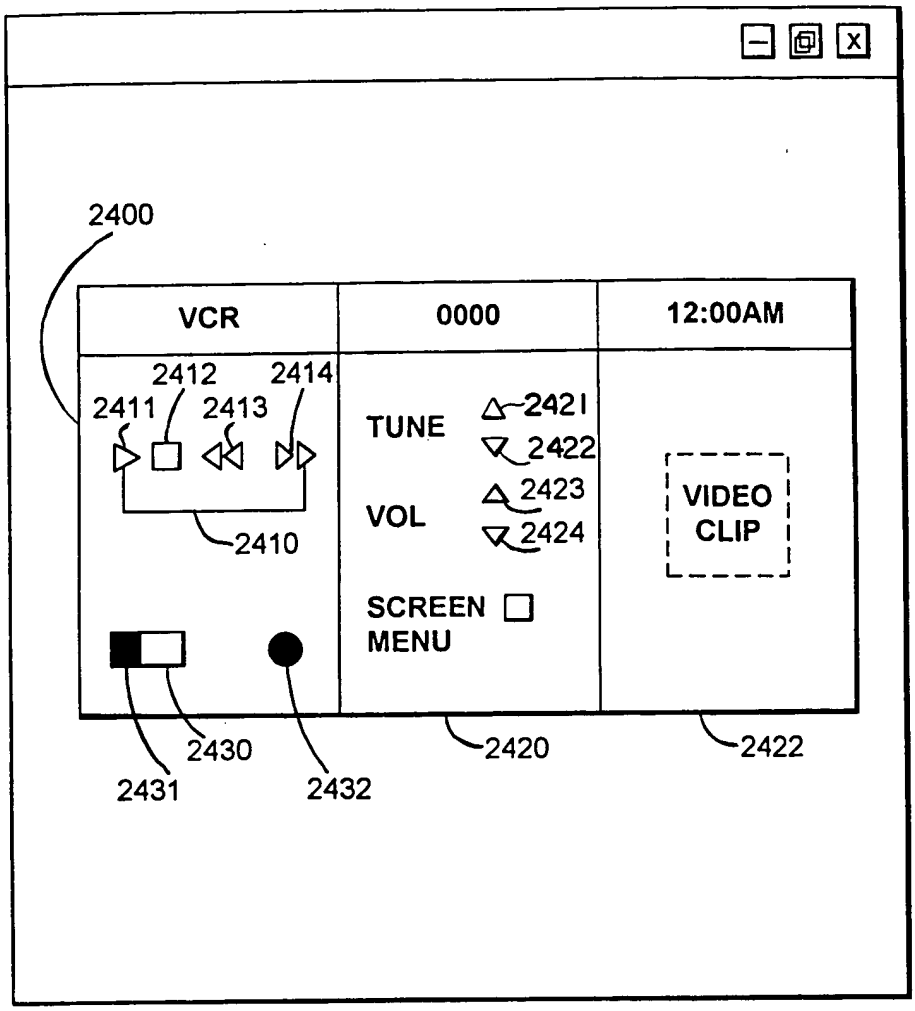
2400
VCR
0000
12:00AM
2412
2414
2411
2413
TUNE
2421
2422
VOL
2423
2424
2410
VIDEO CLIP
SCREEN MENU
2430
2431
2432
2420
2422

FIG. 7

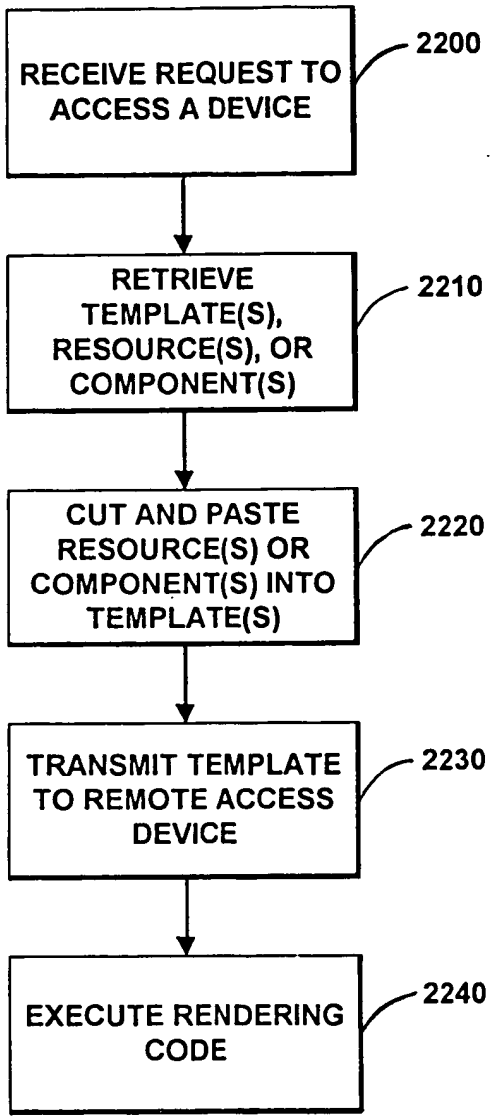
RECEIVE REQUEST TO ACCESS A DEVICE
2200
RETRIEVE TEMPLATE(S), RESOURCE(S), OR COMPONENT(S)
2210
CUT AND PASTE RESOURCE(S) OR COMPONENT(S) INTO TEMPLATE(S)
2220
TRANSMIT TEMPLATE TO REMOTE ACCESS DEVICE
2230
EXECUTE RENDERING CODE
2240

FIG. 8

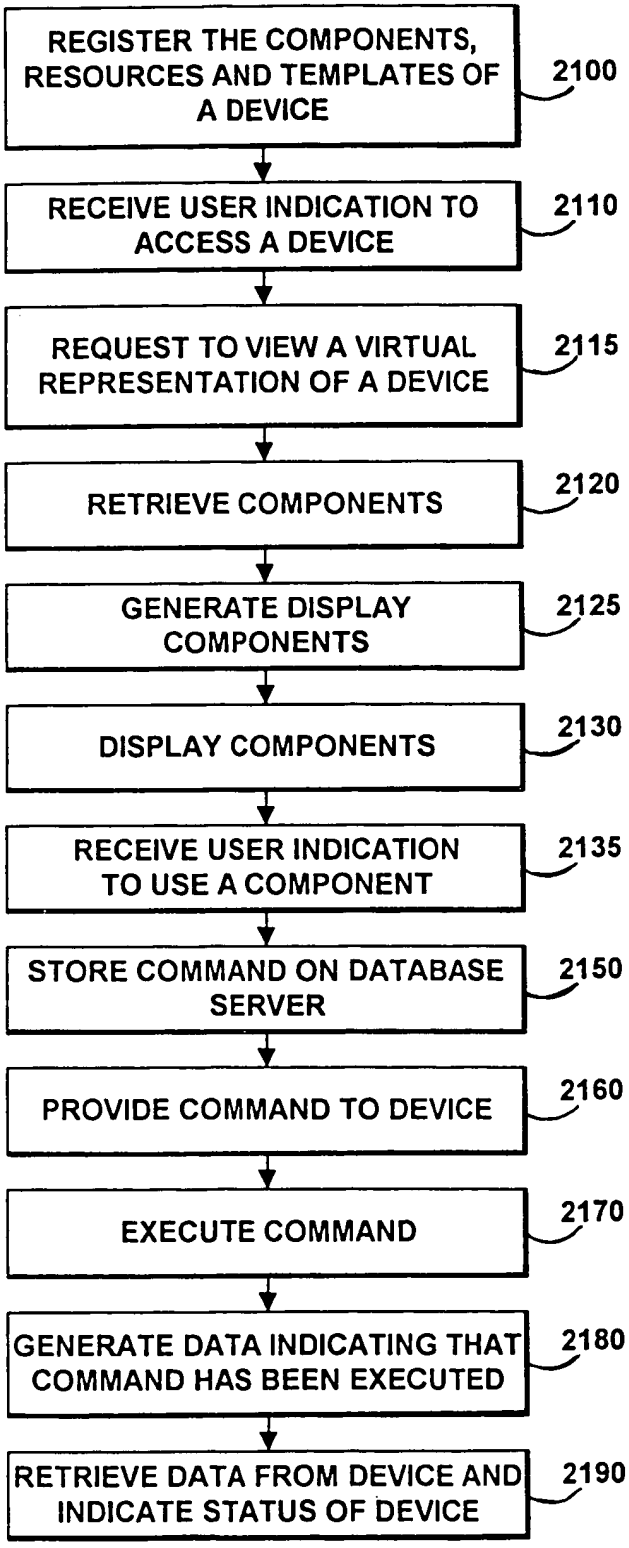
REGISTER THE COMPONENTS, RESOURCES AND TEMPLATES OF A DEVICE
2100
RECEIVE USER INDICATION TO ACCESS A DEVICE
2110
REQUEST TO VIEW A VIRTUAL REPRESENTATION OF A DEVICE
2115
RETRIEVE COMPONENTS
2120
GENERATE DISPLAY COMPONENTS
2125
DISPLAY COMPONENTS
2130
RECEIVE USER INDICATION TO USE A COMPONENT
2135
STORE COMMAND ON DATABASE SERVER
2150
PROVIDE COMMAND TO DEVICE
2160
EXECUTE COMMAND
2170
GENERATE DATA INDICATING THAT COMMAND HAS BEEN EXECUTED
2180
RETRIEVE DATA FROM DEVICE AND INDICATE STATUS OF DEVICE
2190

FIG. 9

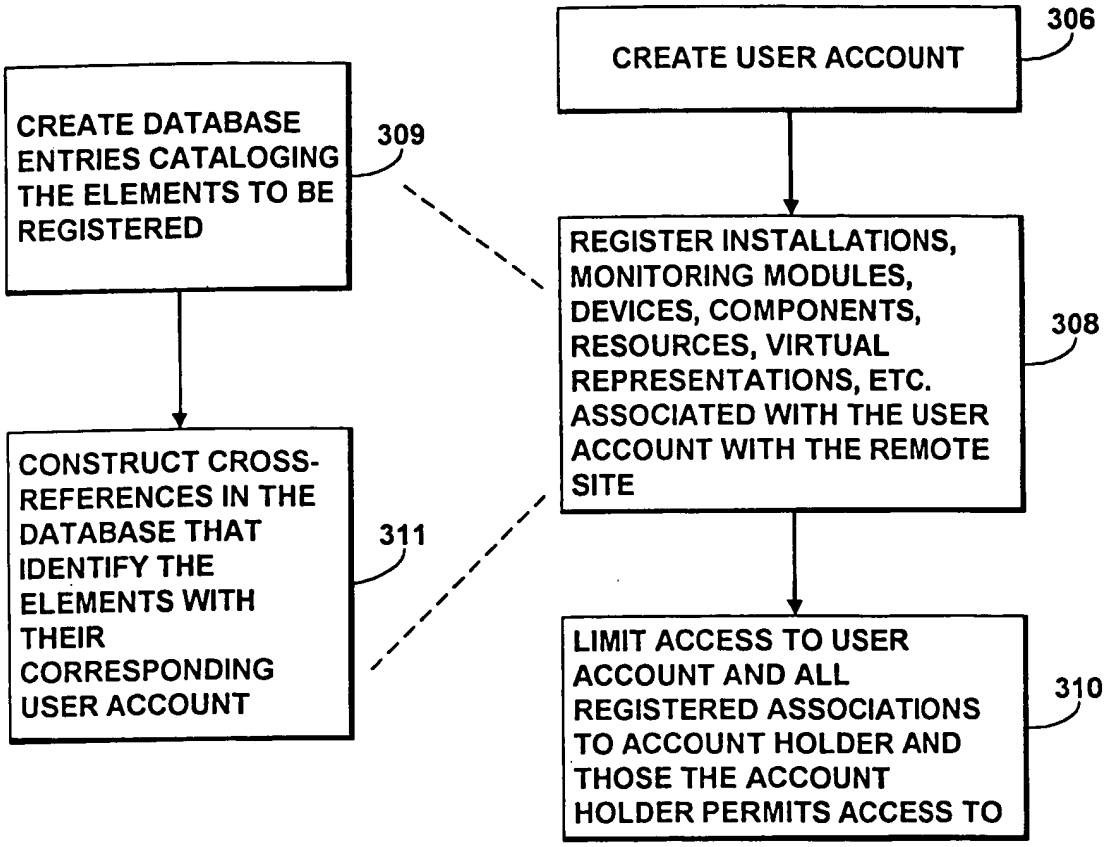
CREATE USER ACCOUNT
306
CREATE DATABASE ENTRIES CATALOGING THE ELEMENTS TO BE REGISTERED
309
REGISTER INSTALLATIONS, MONITORING MODULES, DEVICES, COMPONENTS, RESOURCES, VIRTUAL REPRESENTATIONS, ETC. ASSOCIATED WITH THE USER ACCOUNT WITH THE REMOTE SITE
308
CONSTRUCT CROSS-REFERENCES IN THE DATABASE THAT IDENTIFY THE ELEMENTS WITH THEIR CORRESPONDING USER ACCOUNT
311
LIMIT ACCESS TO USER ACCOUNT AND ALL REGISTERED ASSOCIATIONS TO ACCOUNT HOLDER AND THOSE THE ACCOUNT HOLDER PERMITS ACCESS TO
310

FIG. 10

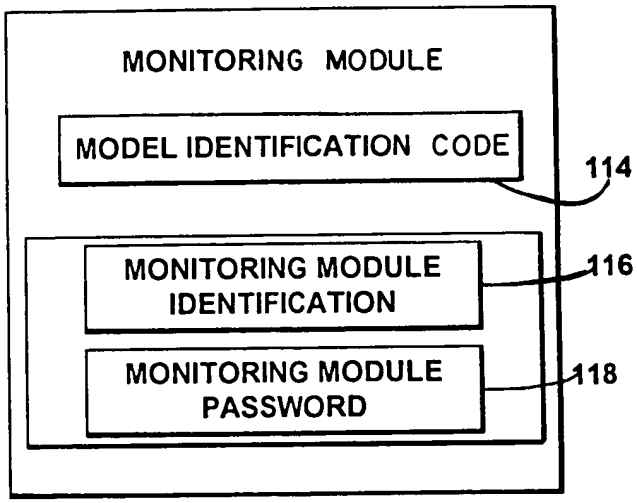
MONITORING MODULE
MODEL IDENTIFICATION CODE
114
MONITORING MODULE IDENTIFICATION
116
MONITORING MODULE PASSWORD
118

FIG. 11

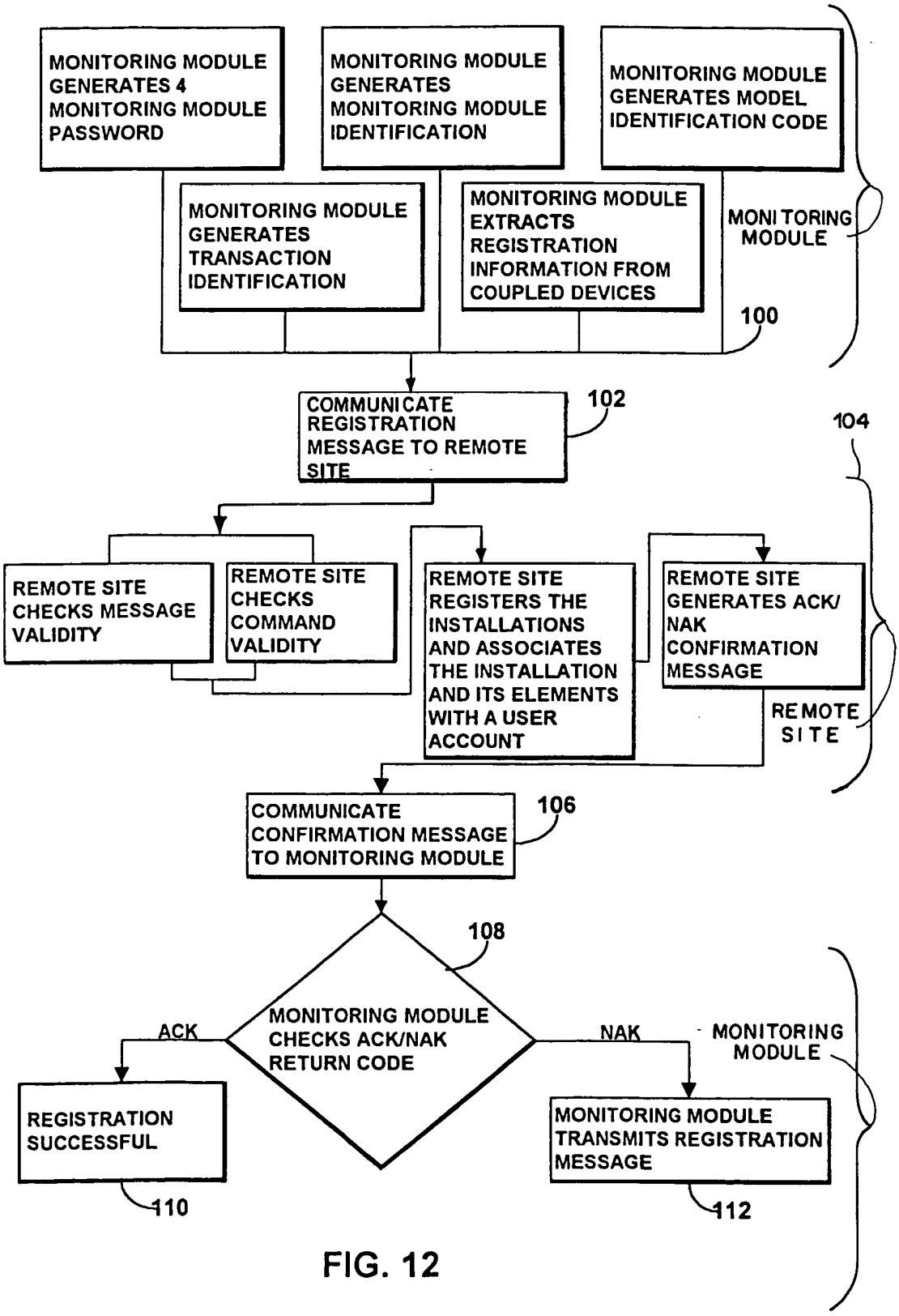
MONITORING MODULE GENERATES 4 MONITORING MODULE PASSWORD
MONITORING MODULE GENERATES MONITORING MODULE IDENTIFICATION
MONITORING MODULE GENERATES MODEL IDENTIFICATION CODE
MONITORING MODULE GENERATES TRANSACTION IDENTIFICATION
MONITORING MODULE EXTRACTS REGISTRATION INFORMATION FROM COUPLED DEVICES
MONITORING MODULE
100
COMMUNICATE REGISTRATION MESSAGE TO REMOTE SITE
102
104
REMOTE SITE CHECKS MESSAGE VALIDITY
REMOTE SITE CHECKS COMMAND VALIDITY
REMOTE SITE REGISTERS THE INSTALLATIONS AND ASSOCIATES THE INSTALLATION AND ITS ELEMENTS WITH A USER ACCOUNT
REMOTE SITE GENERATES ACK/ NAK CONFIRMATION MESSAGE
REMOTE SITE
COMMUNICATE CONFIRMATION MESSAGE TO MONITORING MODULE
106
108
MONITORING MODULE CHECKS ACK/NAK RETURN CODE
ACK
NAK
MONITORING MODULE
REGISTRATION SUCCESSFUL
110
MONITORING MODULE TRANSMITS REGISTRATION MESSAGE
112

FIG. 12

Command Name	Command Parameters	Command Validity Checks
NewAccount	1. userId 2. password	UserId is unique. Password must contain only valid characters. New applianceGUID must be unique.
AddXMMonitoring Module	1. userId 2. password	UserId and password must be current registered user. New Monitoring ModuleGUID must be unique.
addUser	1. userId 2. password	UserId is unique. Password must contain only valid characters.
AddAppliance	1. name 2. class 3. description 4. port	Appliance description unique to this installation.
AddApplianceAction	1. applianceName 2. actionName 3. label 4. description 5. order 6. group	ApplianceName appliance already registered for this installation. applianceAction description & label unique within this installation.
AddApplianceIndicator	1. applianceName 2. indicatorName 3. label 4. type 5. order 6. group	ApplianceName appliance already registered for this installation. indicatorName & label unique within this installation.
AddMonitoringModuleEvents	1. name 2. description	Event description unique within this installation.

FIG. 13a

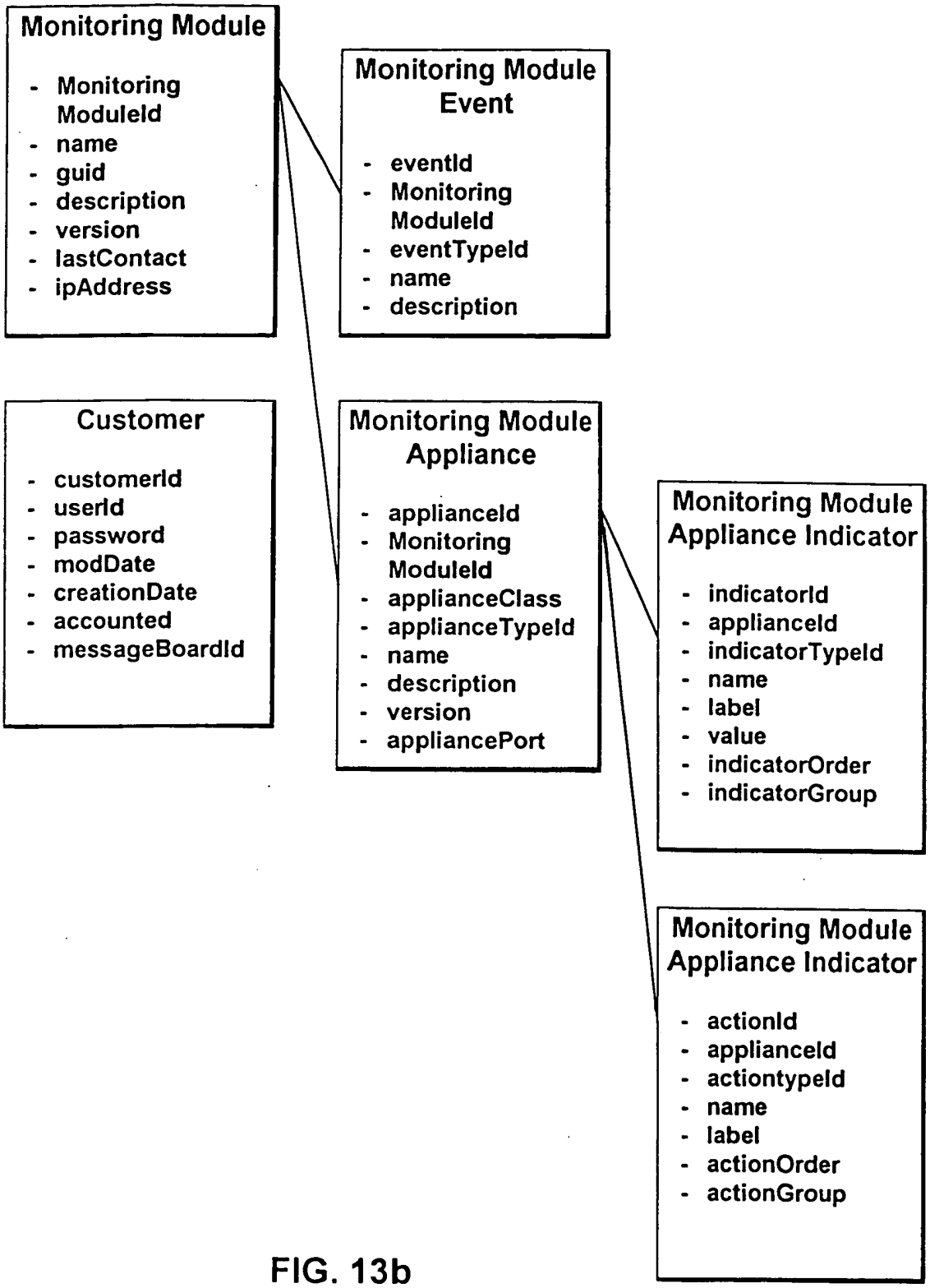
Monitoring Module
- Monitoring ModuleId
- name
- guid
- description
- version
- lastContact
- ipAddress
Monitoring Module Event
- eventId
- Monitoring ModuleId
- eventTypeId
- name
- description
Customer
- customerId
- userId
- password
- modDate
- creationDate
- accounted
- messageBoardId
Monitoring Module Appliance
- applianceId
- Monitoring ModuleId
- applianceClass
- applianceTypeId
- name
- description
- version
- appliancePort
Monitoring Module Appliance Indicator
- indicatorId
- applianceId
- indicatorTypeId
- name
- label
- value
- indicatorOrder
- indicatorGroup
Monitoring Module Appliance Indicator
- actionId
- applianceId
- actiontypeId
- name
- label
- actionOrder
- actionGroup

FIG. 13b

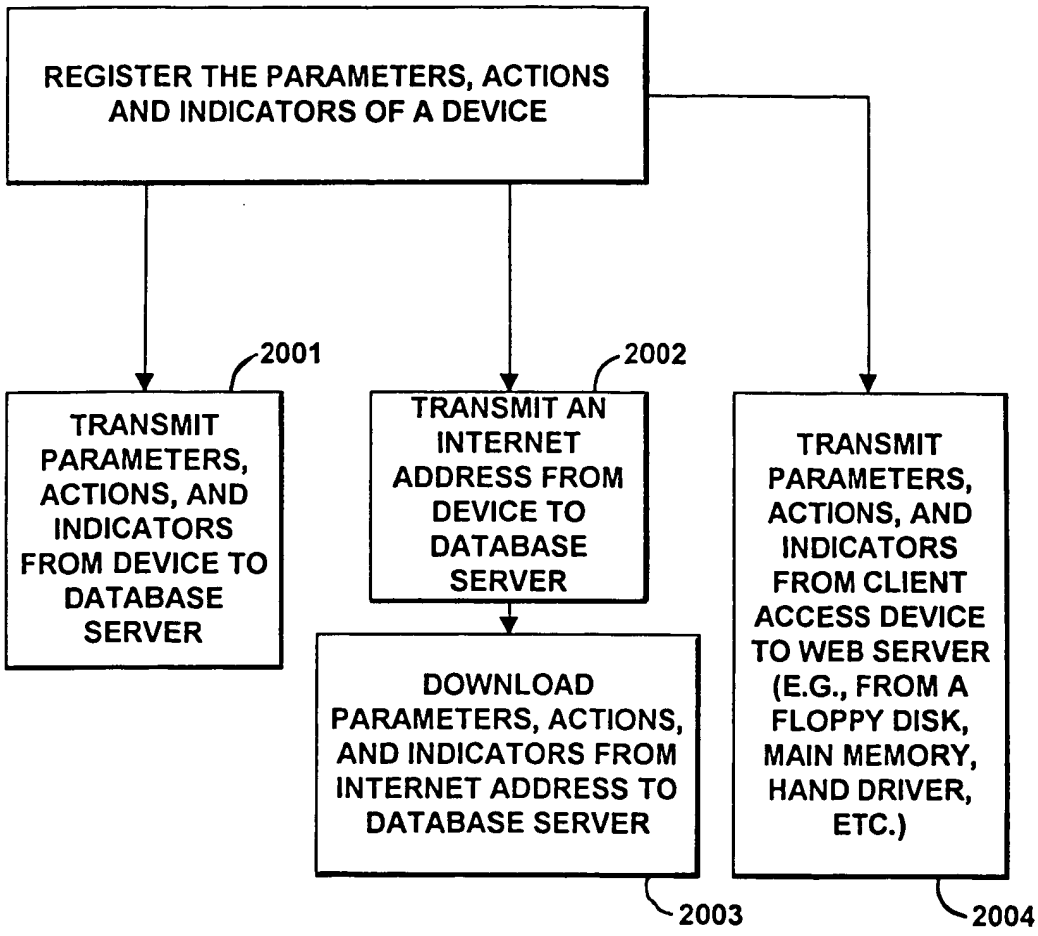
REGISTER THE PARAMETERS, ACTIONS AND INDICATORS OF A DEVICE
2001
TRANSMIT PARAMETERS, ACTIONS, AND INDICATORS FROM DEVICE TO DATABASE SERVER
2002
TRANSMIT AN INTERNET ADDRESS FROM DEVICE TO DATABASE SERVER
DOWNLOAD PARAMETERS, ACTIONS, AND INDICATORS FROM INTERNET ADDRESS TO DATABASE SERVER
2003
TRANSMIT PARAMETERS, ACTIONS, AND INDICATORS FROM CLIENT ACCESS DEVICE TO WEB SERVER (E.G., FROM A FLOPPY DISK, MAIN MEMORY, HAND DRIVER, ETC.)
2004

FIG. 14a

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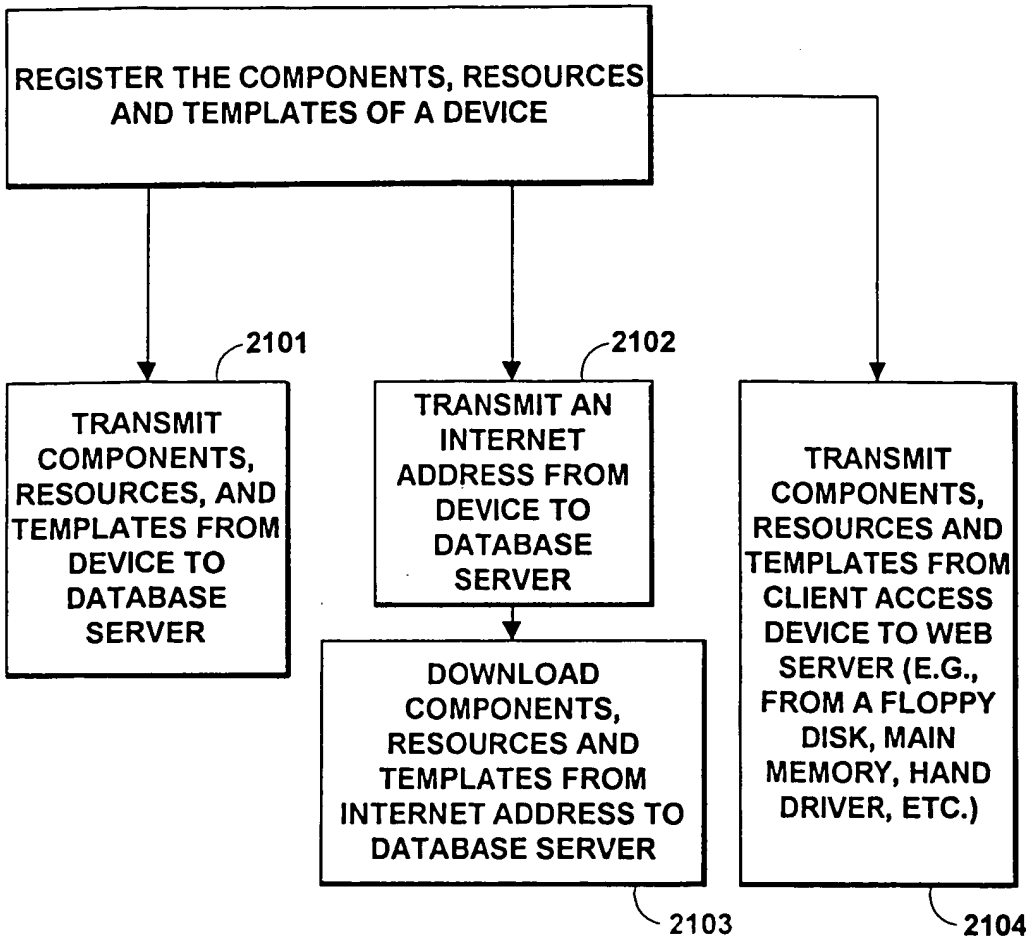
REGISTER THE COMPONENTS, RESOURCES AND TEMPLATES OF A DEVICE
2101
TRANSMIT COMPONENTS, RESOURCES, AND TEMPLATES FROM DEVICE TO DATABASE SERVER
2102
TRANSMIT AN INTERNET ADDRESS FROM DEVICE TO DATABASE SERVER
DOWNLOAD COMPONENTS, RESOURCES AND TEMPLATES FROM INTERNET ADDRESS TO DATABASE SERVER
2103
TRANSMIT COMPONENTS, RESOURCES AND TEMPLATES FROM CLIENT ACCESS DEVICE TO WEB SERVER (E.G., FROM A FLOPPY DISK, MAIN MEMORY, HAND DRIVER, ETC.)
2104

FIG. 14b

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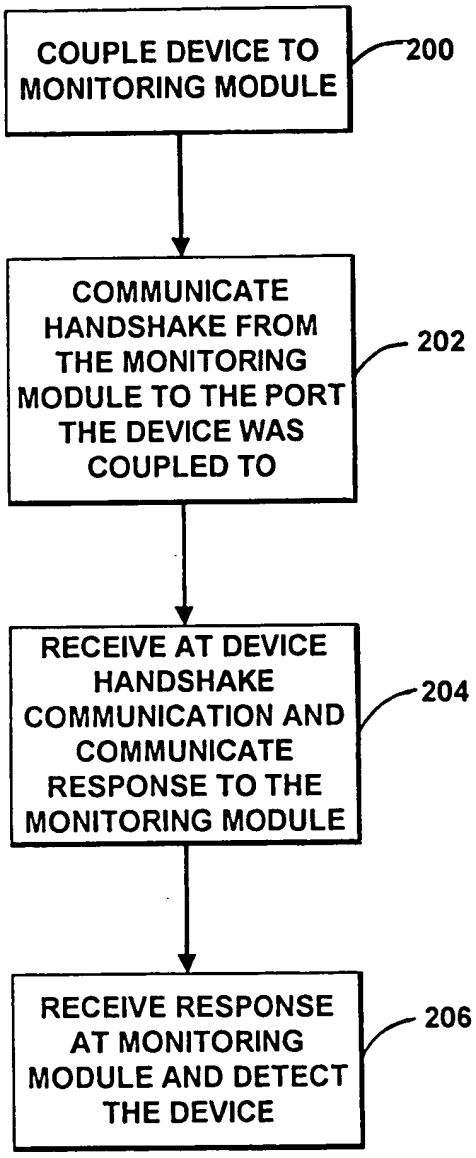
COUPLE DEVICE TO MONITORING MODULE
200
COMMUNICATE HANDSHAKE FROM THE MONITORING MODULE TO THE PORT THE DEVICE WAS COUPLED TO
202
RECEIVE AT DEVICE HANDSHAKE COMMUNICATION AND COMMUNICATE RESPONSE TO THE MONITORING MODULE
204
RECEIVE RESPONSE AT MONITORING MODULE AND DETECT THE DEVICE
206

FIG. 15a

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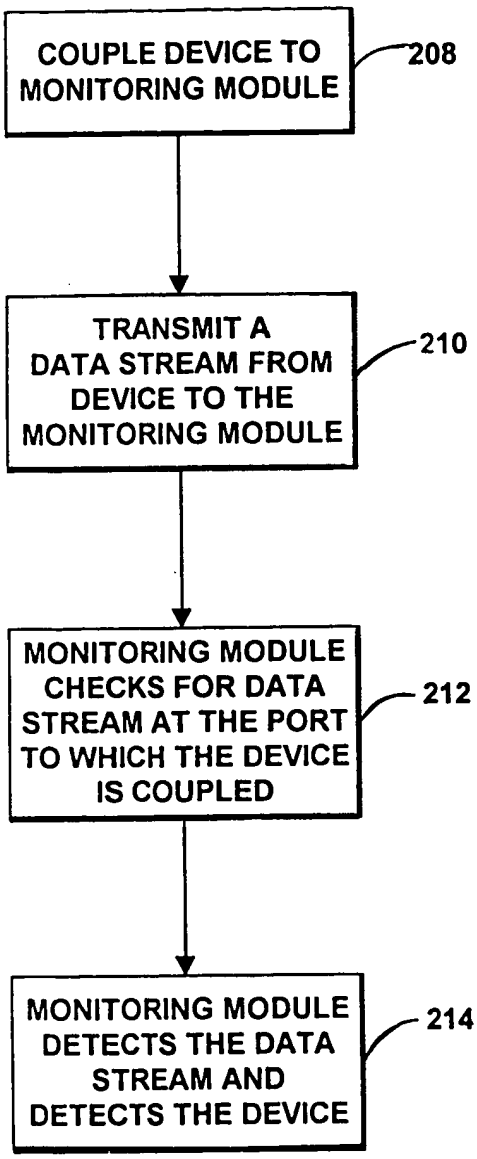
COUPLE DEVICE TO MONITORING MODULE
208
TRANSMIT A DATA STREAM FROM DEVICE TO THE MONITORING MODULE
210
MONITORING MODULE CHECKS FOR DATA STREAM AT THE PORT TO WHICH THE DEVICE IS COUPLED
212
MONITORING MODULE DETECTS THE DATA STREAM AND DETECTS THE DEVICE
214

FIG. 15b

SIGN-UP SERVICE AGREEMENT

I AGREE | I DISAGREE

This Services Agreement ("Agreement") is between you ("User") and CORE Technology, Inc. ("Company"). In consideration of the right to access and use the Company's website, http://www.xanboo.com ("Website"), and receive services offered through the Website (the "Services"), User agrees to the terms and conditions of use set forth in this Agreement and acknowledges that he she is at least 18 years of age. User's continued use of the Services indicates User's willingness to be legally bound by the terms and conditions of this Agreement as set forth below. This Agreement applies to the Services currently offered by the Company and any Services that the Company may choose to offer in the future (unless stated otherwise).

1. Covenant to Read Agreement.
User acknowledges that User has read this Agreement and accepts the terms thereof. If User does not agree to these terms and conditions, User may not access or otherwise use the Website or the Services.

2. Company's Control Over Website.
(a) Company has the right, but no the obligation, to monitor the use of the Website and the Services, and, except as otherwise provided under Company's Privacy Policy, may freely use and disclose any information and materials received from the User or collected through User's use of the Website for any lawful reason or purpose. Click here to view Company's Privacy Policy. Without limiting the foregoing, Company has the right to remove any material that Company, in its sole discretion, finds to be in violation of the provisions hereof or

FIG. 16

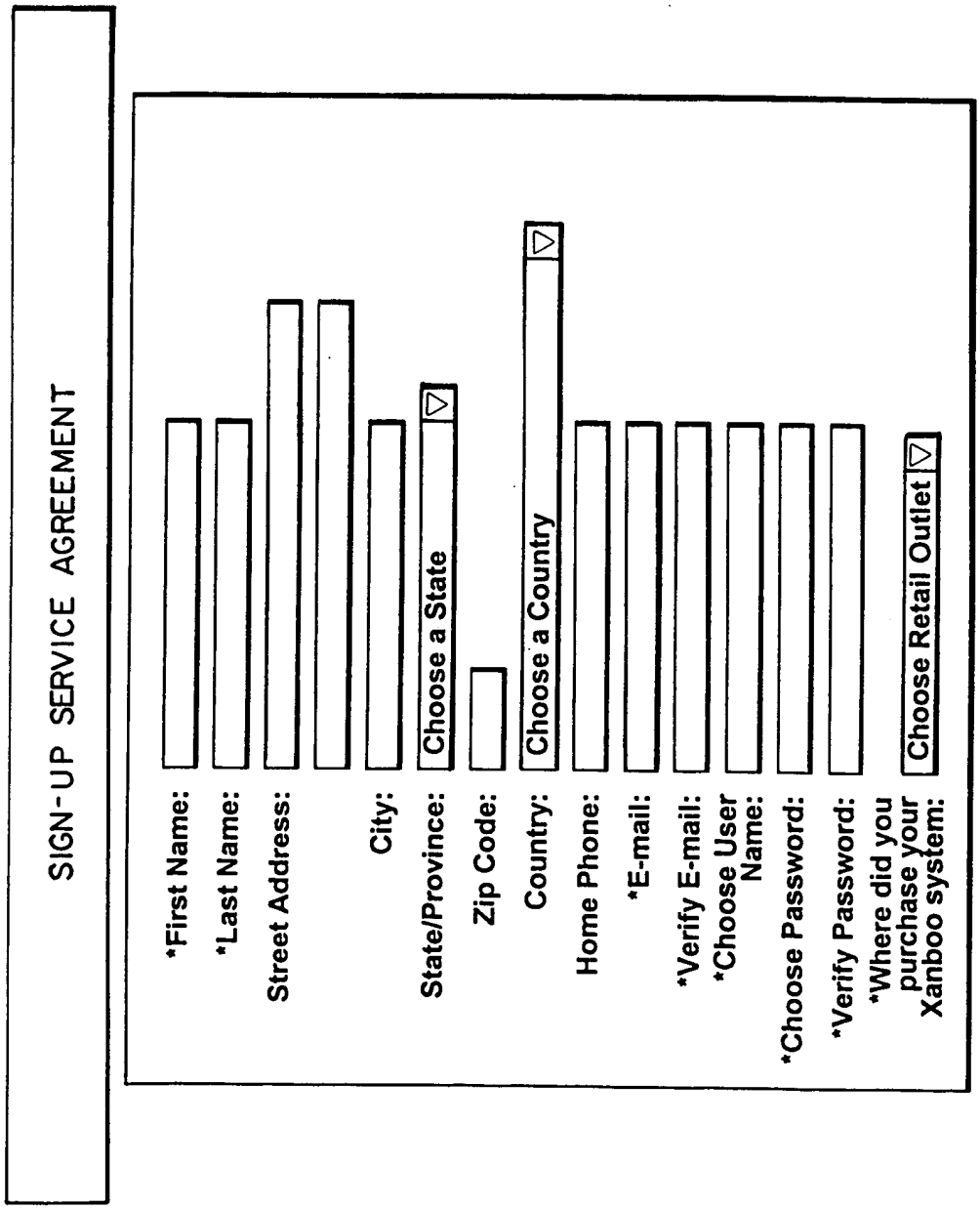
SIGN-UP SERVICE AGREEMENT
*First Name:
*Last Name:
Street Address:
City:
State/Province:
Choose a State
Zip Code:
Country:
Choose a Country
Home Phone:
*E-mail:
*Verify E-mail:
*Choose User Name:
*Choose Password:
*Verify Password:
*Where did you purchase your Xanboo system:
Choose Retail Outlet
BACK
CLEAR FORM
SUBMIT

FIG. 17

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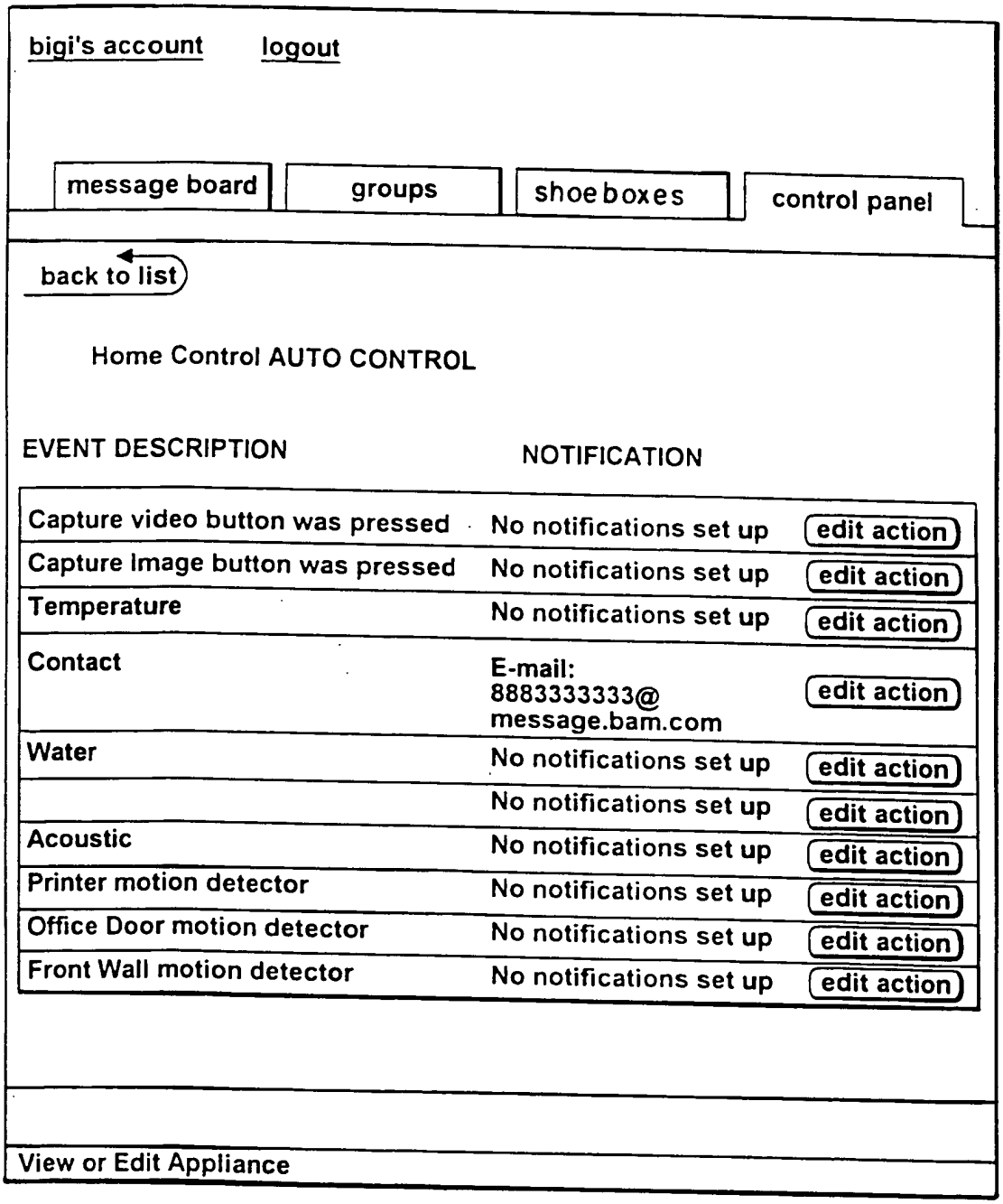

bigi's account
logout
message board
groups
shoeboxes
control panel
back to list
Home Control AUTO CONTROL
EVENT DESCRIPTION
NOTIFICATION
Capture video button was pressed
No notifications set up
edit action
Capture Image button was pressed
No notifications set up
edit action
Temperature
No notifications set up
edit action
Contact
E-mail: 8883333333@ message.bam.com
edit action
Water
No notifications set up
edit action
No notifications set up
edit action
Acoustic
No notifications set up
edit action
Printer motion detector
No notifications set up
edit action
Office Door motion detector
No notifications set up
edit action
Front Wall motion detector
No notifications set up
edit action
View or Edit Appliance

FIG. 18

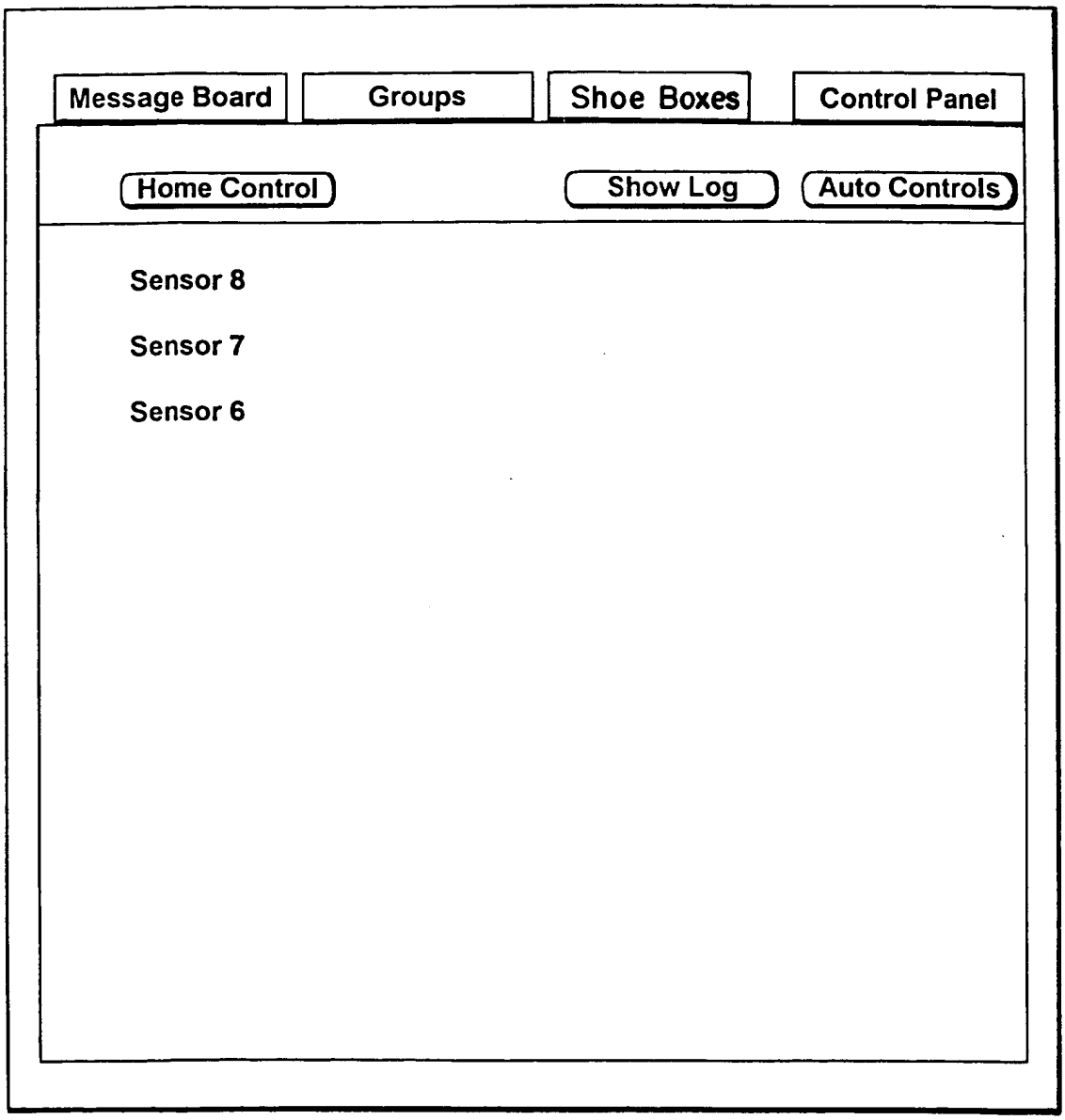

Message Board
Groups
Shoe Boxes
Control Panel
Home Control
Show Log
Auto Controls
Sensor 8
Sensor 7
Sensor 6

FIG. 19

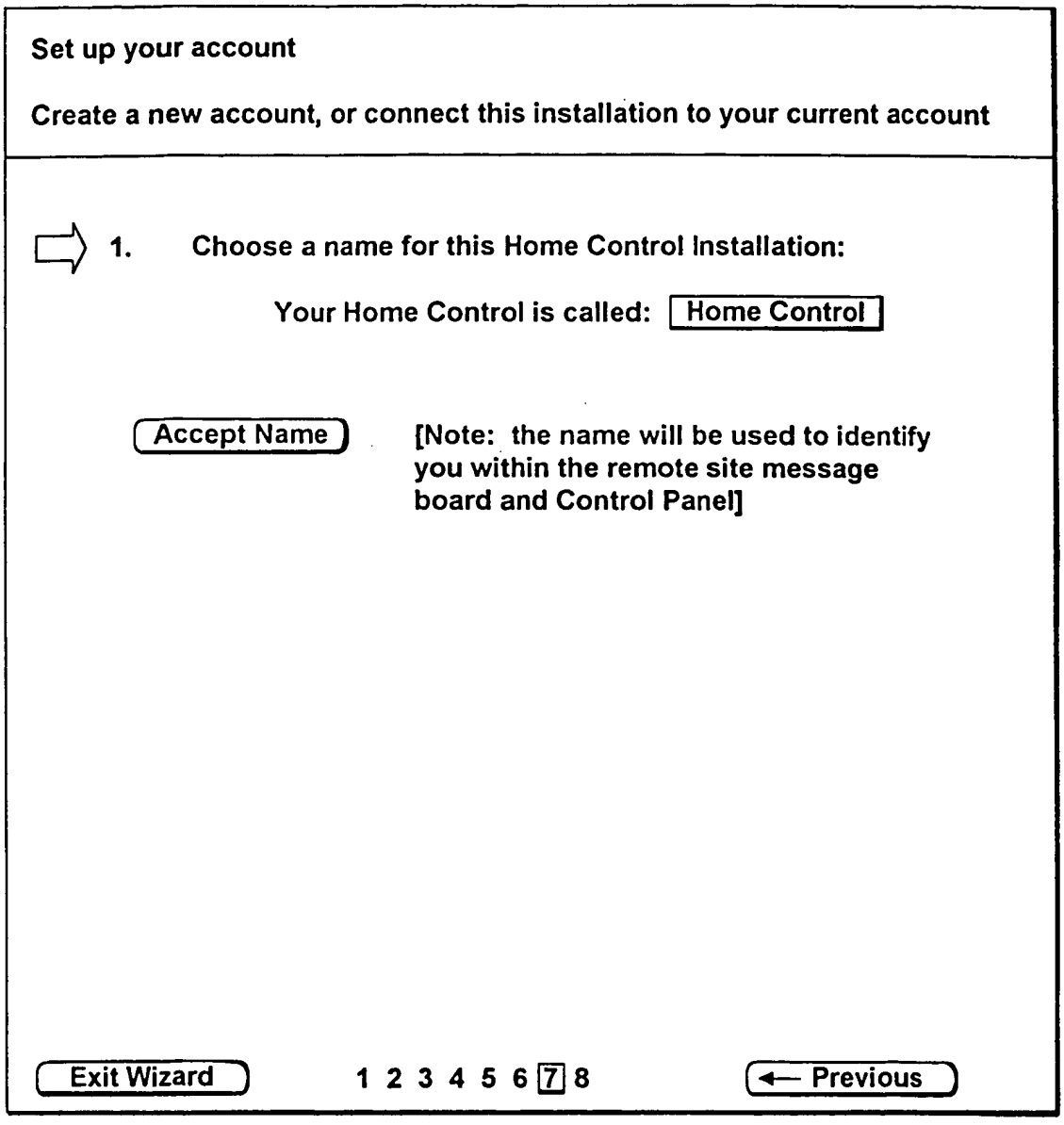
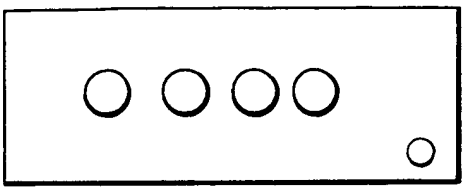

Set up your account
Create a new account, or connect this installation to your current account
1. Choose a name for this Home Control Installation:
Your Home Control is called: Home Control
Accept Name
[Note: the name will be used to identify you within the remote site message board and Control Panel]
Exit Wizard
1 2 3 4 5 6 7 8
← Previous

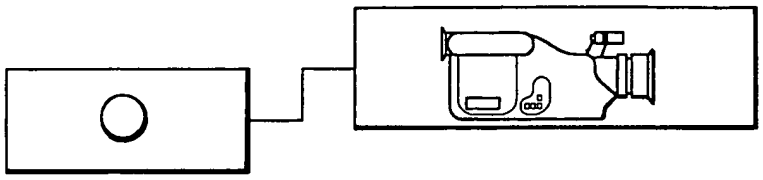
FIG. 20

Introduction to Detecting Cameras
Please make sure that you have connected one or more cameras to your System Controller. Then click "next" to continue with setup

You may attach from one to four 'wired' video cameras to your System Controller. If you have not already connected at least one camera, please do so at this time, then click on the 'next' button.



To connect a camera, insert the yellow plug on the end of the camera cable into one of the yellow camera jacks (labeled 'CAM1' through 'CAM4') located on the back panel of the System Controller.



On the following Setup screen, Home Control will detect and configure the camera(s) that you have connected. You may choose a custom name for each camera, or accept the default names of 'Camera 1' through 'Camera 1'.

exit wizard 1 2 3 4 5 6 7 8 previous next

FIG. 21

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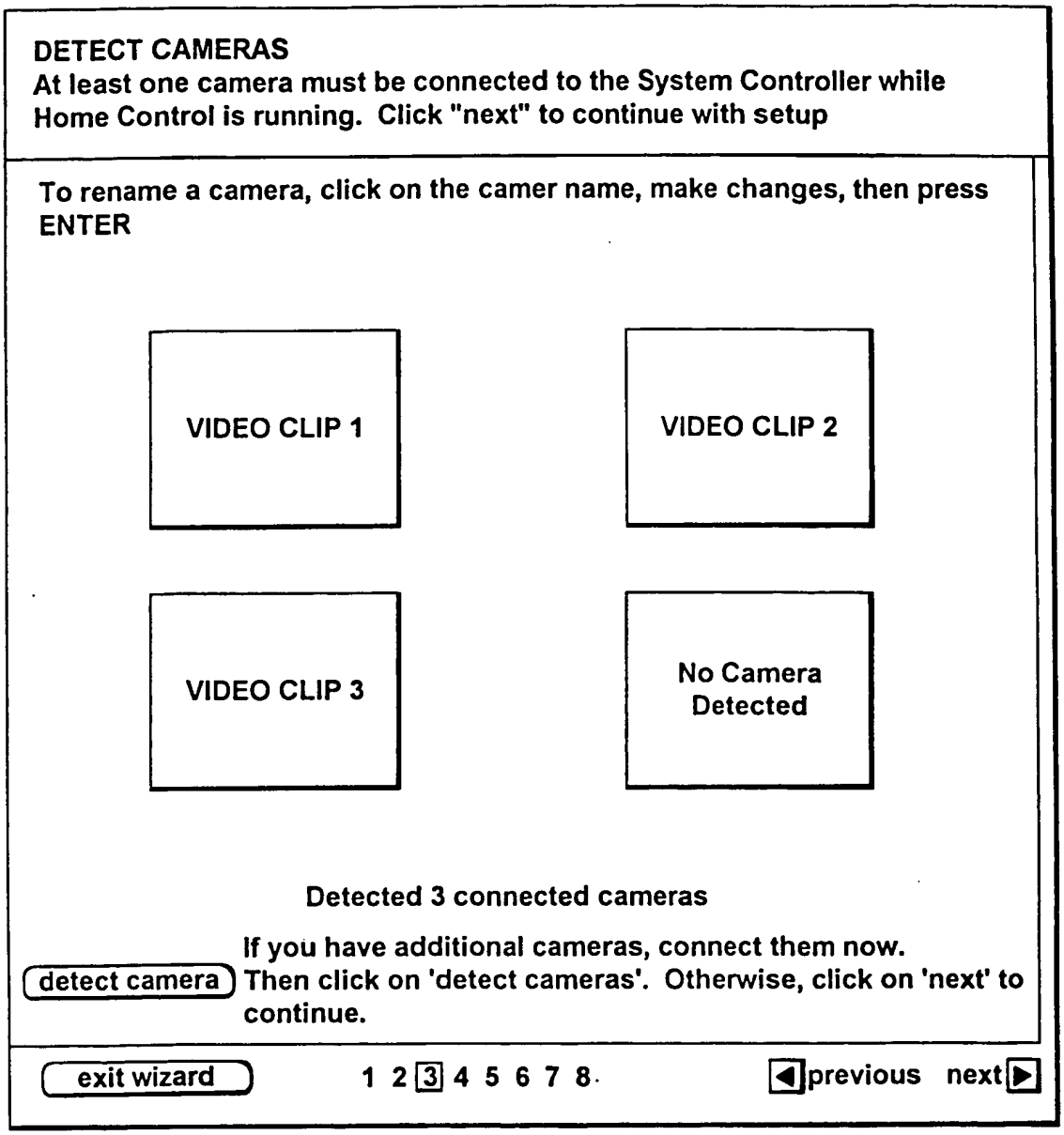
DETECT CAMERAS
At least one camera must be connected to the System Controller while Home Control is running. Click "next" to continue with setup
To rename a camera, click on the camer name, make changes, then press ENTER
VIDEO CLIP 1
VIDEO CLIP 2
VIDEO CLIP 3
No Camera Detected
Detected 3 connected cameras
If you have additional cameras, connect them now. Then click on 'detect cameras'. Otherwise, click on 'next' to continue.
detect camera
exit wizard
1 2 3 4 5 6 7 8
previous
next

FIG. 22

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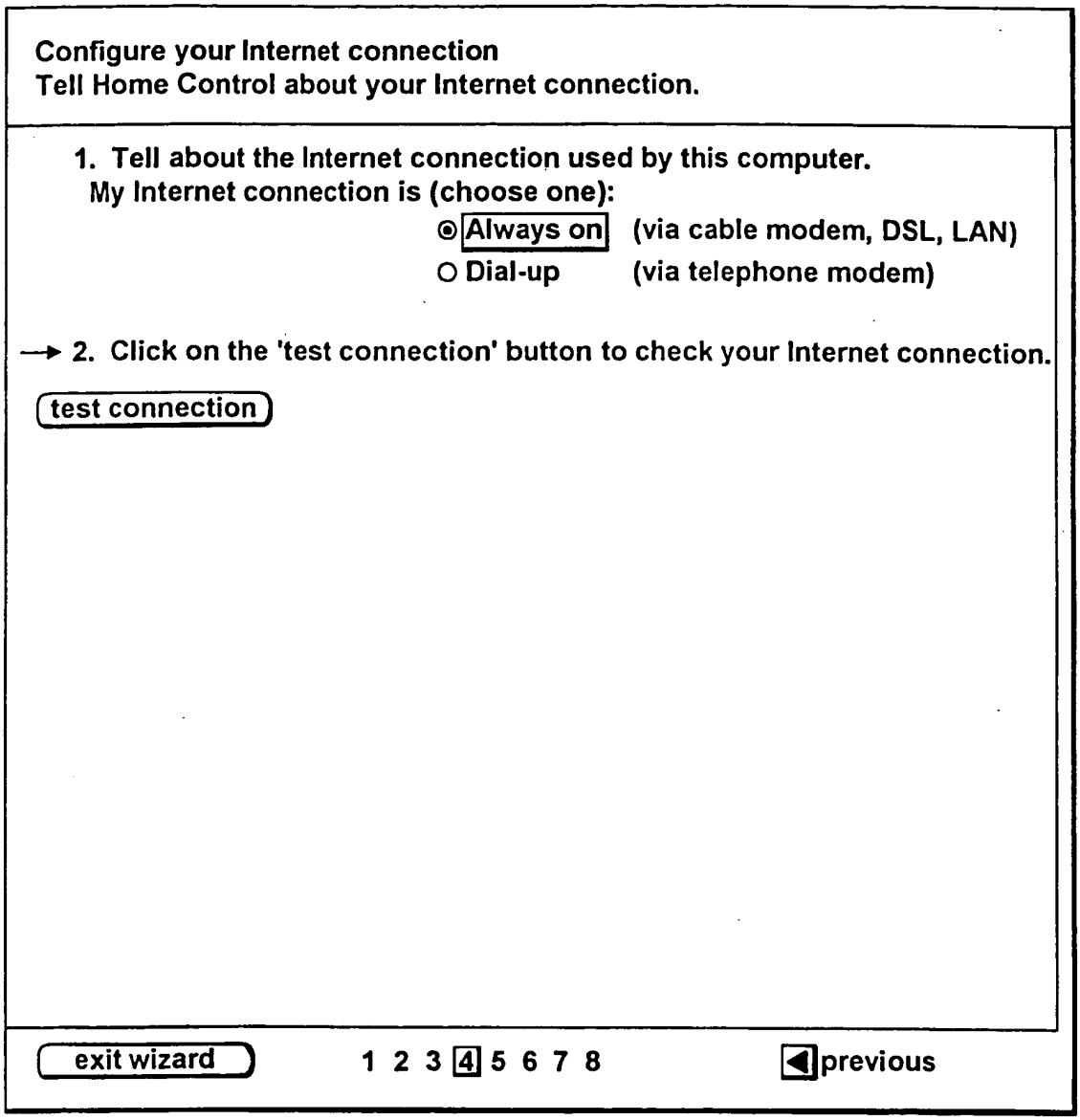
Configure your Internet connection
Tell Home Control about your Internet connection.
1. Tell about the Internet connection used by this computer.
My Internet connection is (choose one):
Always on (via cable modem, DSL, LAN)
Dial-up (via telephone modem)
2. Click on the 'test connection' button to check your Internet connection.
test connection
exit wizard
1 2 3 4 5 6 7 8
previous

FIG. 23